Bibliography of the Surficial Geology of Nova Scotia and the Offshore (with Radiocarbon Date List)

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Nova Scotia

Department of
Mines and Energy

85-6338/

Nova Scotia
Department of
Mines and Energy

REPORT 84-6

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HALIFAX, NOVA SCOTIA

1984

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PREFACE

This bibliography is an attempt to compile all the references relating to the surficial geology of Nova Scotia and the offshore, dating back to the early 1800's. Glacial and Quaternary geology and till geochemistry are the main themes of the literature referenced. (The compilers have searched general geology reports for information on surficial geology and included these types of references.) Sources of general and specialized information include: published scientific journals and geological reports, unpublished field trip guidebooks, theses, mineral exploration assessment reports, engineering and groundwater reports, and open file reports to the Nova Scotia Departments of Mines and Energy and the Environment. These sources of information are available at the Libraries of these Departments and Dalhousie University.

ACKNOWLEDGMENTS

The compilers thank Norman Lyttle, Janet Gillespie-Wood and John Fowler of the Nova Scotia Department of Mines and Energy for their assistance in the preparation of this report. Tom Mitchell, while working for the Department, compiled many of the assessment reports and radiocarbon dates. Staff at the MacDonald Science Library at Dalhousie University and the Library of the Nova Scotia Department of the Environment were also very helpful in this project. The compilers also thank Dr. D. R. Grant of the Geological Survey of Canada for kindly supplying reference lists and checking an early version of the manuscript. Dr. D. Scott of Dalhousie University and G. Fader of the Bedford Institute of Oceanography provided unpublished radiocarbon dates for the compilation.

INTRODUCTION:
THE DEVELOPMENT OF CONCEPTS ON THE GLACIATIONS OF NOVA SCOTIA

R. R. Stea

Nova Scotia has many examples of the effects of glaciers on landscape. Ancient uplands such as the Cobequid Highlands are traversed by U-shaped valleys and rock outcrops are striated and polished. Thick morainal deposits are found in the valleys and lowlands. In the early 1800's two theories were advanced to explain these phenomena. Sir Charles Lyell (1845) advocated the idea of floating ice and extensive marine submergence. He visited Nova Scotia in the early 1800's and advanced this theory in his book *Travels in North America*. Meanwhile, in Europe, Louis Agassiz proposed that many of these landscape features could be explained by the action of land ice or glaciers. Sir J. W. Dawson, born in Pictou, Nova Scotia, became acquainted with Lyell when he visited North America. Dawson, later became a strong proponent of the submergence theory summarizing his ideas in *Acadian Geology* (1855).

Thomas Belt (1866b), working for a gold mining company in Nova Scotia, observed the long, deeply eroded valleys and the dispersal of gold ore from its source lodes. He favoured the glacial theory to explain the origin of these features. Belt (1866) stated:

> Scratches and grooves might be caused by icebergs grinding along the bottom of a shallow sea, but the glaciation of a continent and especially the scooping out of long valleys, requires the uniform action of a more powerful agency.

The glacial theory started to gain favour and a controversy about the nature of glaciation in Nova Scotia began to emerge. Was the ice local in origin, originating in upland areas of the Province, or was the ice part of a great continental mass which crossed the Province from the north? The Reverend D. Honeyman, curator of the Provincial museum in the late 1800's, discovered amygdaloidal basalt boulders along the Atlantic coast near Halifax (Honeyman, 1876, 1882, 1883, 1885a, 1888b). These boulders were derived from the North Mountain, and had been transported a distance of 80 miles. He used the observation to support the concept of a continental-based ice movement that crossed the Bay of Fundy.

Robert Chalmers (1895a) of the Geological Survey of Canada mapped surficial deposits and glacial features in Eastern Canada. He carefully mapped glacial grooves and striations in Nova Scotia and interpreted a sequence of local ice movements. He proposed that northern Nova Scotia had been glaciated largely by local glaciers with floating ice a secondary agent in low lying areas. In contrast to Honeyman, he did not believe that a glacier had crossed the Bay of Fundy. Chalmers (1895a, p. 95m) stated:

> The depression of the Bay of Fundy was not crossed by land ice from southern New Brunswick . . . Neither has Nova Scotia been glaciated by extra-peninsular ice from the north or northeast.

L. W. Bailey (1898) and W. H. Prest (1896), working in mainland Nova Scotia, observed erratics that supported the view that ice crossed the Bay of Fundy and that there were local ice caps. Bailey stated the compromise position (1898, p. 26m):

> As in other parts of southwestern Nova Scotia the facts connected with the glaciation of Digby Neck are, in the opinion of the writer, best explained upon the supposition of submergence beneath a continental glacier moving southward and bringing debris even from the other side of the Bay of Fundy, followed by a period of more local and restricted distribution, when the higher portions of the peninsula became themselves the centre of the movement, the latter now occurring in all directions.

E. R. Faribault (1920), who mapped the bedrock geology of much of southern mainland Nova Scotia, concurred with Bailey's view of glaciation (1920, p. 8e).

J. W. Goldthwait (1924) in his treatise *The Physiography of Nova Scotia* dismissed all evidence regarding local glaciers in Nova Scotia. He envisioned a major ice mass moving southeastward, stemming from a Labrador source, and a subsequent southward directed ice movement stemming from ice in the Gulf of St. Lawrence called the *Acadian Bay Lobe* . Goldthwait's (1924) ideas gained ascendancy in the following years, and much of the earlier work was discredited. Wickenden (1941, p. 143) for example dismissed Chalmers (1895) work as being "without value".

Pleistocene mapping in the Annapolis Valley initiated at Acadia University, Wolfville (MacNeill, 1951; Purdy, 1951; Swayne, 1952) revived the concepts of continental, then local glaciations (MacNeill and Purdy, 1951). Synchronously, Flint (1951) proposed two local ice centres in Nova Scotia based on the previous work of Chalmers (1895a). Hickox (1962a) confirmed that granitic erratics on the North Mountain were derived from the South Mountain Batholith in Nova Scotia and not from New Brunswick as Goldthwait (1924) had suggested.

During this period the radiocarbon dating method became established and processes of glacier mechanics were being elucidated. The timing of glaciations in Nova Scotia began to emerge as a subject of contention. Regional analyses of air photographs prompted Prest and Grant (1969) to postulate that there were several local centres of ice flow remnant from continental Laurentide ice that crossed the Bay of Fundy. They believed, however, that this local ice buildup was not due to climatic changes, but to drawdown of ice caused by incursion of the sea into the Bay of Fundy and Gulf of St. Lawrence.

The debate then focussed upon when the Laurentide ice flood occurred and not if it occurred. The Late Wisconsinan substage (25,000 to 10,000 years B.P.) was shown to be the time when the last glacial maximum was reached. King (1969) dated the last glacial maximum in Nova Scotia, represented offshore by the Scotian Shelf morainal system, at 18,800 years B.P. He concluded that the Scotian Shelf morainal system represents the

terminus of a major continental ice advance. Surficial mapping in Cape Breton Island (Grant, 1971a) and southwestern Nova Scotia (Grant, 1971b) began to add new data to the problem of timing. Grant (1975c) proposed a southward flood of ice prior to 39,000 years B.P. followed by a retreat about 38,000 years ago and re-expansion of Nova Scotia glaciers during the Late Wisconsinan. Grant (1977b) further developed the hypothesis that Late Wisconsinan ice of Labradorean (Laurentide) origin never reached Nova Scotia and that the mainland and Cape Breton harboured their own ice caps. Grant (1977b, p. 247) stated:

> Evidence from scattered stratigraphic sections, from the relationship of a sequence of ice flow indicators to a raised interglacial marine platform, together with the limits of freshly glaciated terrain against weathered bedrock areas, indicates that late Wisconsinan glaciers spread weakly toward, and in many areas not beyond, the present coast. These were fed by a complex of small ice caps located on broad lowlands and uplands. The limiting factor was the deep submarine channels that transect the region. Thus, Laurentide ice was limited to the northern Gulf of St. Lawrence.

Field trips during the International Geological Congress (Prest et al., 1972) revealed patterns of ice flow that were incongruous with many previously held ideas on ice distribution in Nova Scotia. For instance, MacNeill *(in* Prest et al., 1972, p. 25) observed a late westward ice flow occurring in the Annapolis Valley to which a centre of accumulation and limit were not ascribed. Later work at Dalhousie University, Halifax, concentrated on an effort to tie in dated depositional records with erosional features of ice flow as well as with advanced work on till properties and correlation. Nielsen (1976) studied the mineralogy of tills in Nova Scotia and concluded, contrary to Grant (1977b), that the Late Wisconsinan till record in Nova Scotia represented several glacio-dynamic facies of a single Laurentide advance. Wightman (1980) studied the lithology of single outwash deltas along the Minas Basin shore and postulated that Late Wisconsinan ice from an external source did cross the Cobequid Highlands. Stea (1982a, b) described four major till-forming ice advances in central Nova Scotia. He adduced two earlier flows from external sources, and two later flows from ice caps on the Province itself. The last three till units were believed to span Middle to Late Wisconsinan time. There is emerging evidence for a more complex picture of ice movements than that envisioned by Grant (1977b) in the Late Wisconsinan. The movement history is characterized by diachronous advances and retreats of ice caps centred north of the Province and the Atlantic Uplands, Antigonish Highlands and Cape Breton Lowlands. The lack of adequately dated sequences of the tills related to these ice flows, however is a major obstacle to regional synthesis. Quinlan and Beaumont (1981), through modelling of relative sea level, inferred a Late Wisconsinan ice distribution somewhere between the minimum model of Grant (1977) and the former Laurentide maximum ice model.

Detailed work on till stratigraphy and mapping of glacial features is currently being carried out by mineral exploration firms (e.g. Sinclair et al., 1980a, b, c, d, e, and f) and by Provincial and Federal government agencies. Universities such as Dalhousie and Acadia are carrying out topical studies. This ongoing research will enhance the knowledge of Pleistocene events in Nova Scotia.

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APPENDIX I

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APPENDIX II

RADIOCARBON DATE LIST

RADIOCARBON DATE LIST

Radiocarbon Laboratories (Key to Lab Numbers)

Dal - Dalhousie University Radiocarbon Laboratory
I - Isotopes, Inc.
GSC - Geological Survey of Canada
GX - Geochron Laboratories Inc.
OWU - Ohio Weslyan University
P - University of Pennsylvania, Applied Science Centre for Archeology
QU - University of Quebec
S - University of Saskatchewan, Department of Chemistry
Y - Yale University Radiocarbon Laboratory

DATES	PLACE	CO-ORDINATES		MATERIAL	LAB NUMBER	REFERENCES
		LATITUDE	LONGITUDE			
40±220 A.D. 1,910	Ingonish, Victoria County	46°39.20'N	60°23.70'W	Metapodial bone *Rangifer tarandus*	GSC-1395	Lowdon, Robertson & Blake, 1971
60±130 A.D. 1,890	Nictaux Falls, Annapolis County	45°54.75'N	65°01.52'W	Marine shells	GSC-1288	Lowdon, Robertson & Blake, 1971
102±1.2%	Digby, Digby County	44°30'N	66°00'W	Log-canoe	Dal-241	Odgen & Hart, 1977
104.1±1.3% above modern	Everitts Lake, Digby County	44°27'N	65°52'W	NA	Dal-207	Odgen & Hart, 1977
160±50	Joggins, Cumberland County	45°41.90'N	64°27.20'W	Pelecypod valve	GSC-2833	Lowdon & Blake, 1979
210±130 A.D. 1,740	Sable Island, Nova Scotia	43°56'N	60°02'W	Plant detritus	GSC-461	Lowdon & Blake, 1968
315±85 A.D. 1,635	East Pennant, Halifax County	44°27.60'N	66°38.20'W	Freshwater woody peat	Dal-33	Odgen & Hart, 1976
320±130 A.D. 1630	West Point, Sable Island	43°56.50'N	60°05'W	Peat	GSC-1009	Lowdon, Robertson & Blake, 1971
440±90	Truro, Colchester County	41°22'N	63°17'W	Charcoal	Dal-242	Odgen & Hart, 1977
500±60 A.D. 1,450	Indian Point, Halifax County	44°38'44"N	63°54'55"W	*Mercenaria* shells	S-187	McCallum & Wittenberg, 1965
560±130	Pennant Cove, Halifax County	44°28.87'N	63°37.89'W	Wood 4.3 feet (1.3 m) below high tide	GSC-1597	Blake, 1983
600±45 A.D. 1,350	Indian Point, St. Margarets Bay, Halifax County	44°38'44"N	63°54'55"W	Charcoal	S-153	McCallum & Wittenberg, 1965

NA = not available

DATES	PLACE	CO-ORDINATES		MATERIAL	LAB NUMBER	REFERENCES
		LATITUDE	LONGITUDE			
615±85	Yarmouth, Yarmouth County	43°39'N	66°10'W	Wood *Picea*	Dal-240	Odgen & Hart, 1977
650±130 A.D. 1,300	West Point, Sable Island	43°56.50'N	60°05'W	Peat	GSC-1010	Lowdon, Robertson & Blake, 1971
735±205	Minas Basin	NA	NA	Total carbon 0-7.9 inches (0-20 cm)	NA	Amos, 1978
760±130 A.D. 1,190	St. Marys Bay, Digby County	44°34.77'N	65°51.40'W	*Scirpus sp.*	GSC-997	Lowdon & Blake, 1970
900±50 A.D. 1,050	Whynachts Cove, Lunenburg County	44°27'34"N	64°18'33"W	Charcoal	S-154	McCallum & Wittenberg, 1965
915±130	Chezzetcook Inlet, Halifax County	44°42'N	63°15'W	Wood 9.2 feet (2.8 m) below high tide	GX-4825	Scott, unpublished
980±140 A.D. 970	Amherst Marsh, Cumberland County	45°49.15'N	64°15.00'W	Sedge peat	GSC-1032	Lowdon & Blake, 1970
1,005±135 A.D. 945	Oak Hill Lake, Lunenburg County	44°23'N	64°34'W	Algal gyttja 3 inches (7.5 cm) depth	OWU-501	Ogden & Hay, 1973
1,010±130 A.D. 940	Double Island, Yarmouth County	43°40.10'N	65°47.50'W	Wood	GSC-918	Lowdon & Blake, 1970
1,040±130 A.D. 910	Big Tancook Island, Lunenburg County	44°26.90'N	64°10.30'W	Wood	GSC-910	Lowdon & Blake, 1970
1,060±130	East Pennant, Halifax County	44°27.60'N	63°38.20'W	Wood *Picea*	Dal-32	Odgen & Hart, 1976
1,065±195	Everitts Lake, Digby County	44°27'N	65°52'W	Gyttja 23.6 inches (60 cm)	Dal-208	Odgen & Hart, 1977

NA = not available

DATES	PLACE	CO-ORDINATES		MATERIAL	LAB NUMBER	REFERENCES
		LATITUDE	LONGITUDE			
1,210±140 A.D. 740	Lyons Head, Colchester County	45°21.80'N	63°24.20'W	Wood 19.7 feet (6 m) below high tide	GSC-973	Lowdon & Blake, 1970
1,230±130 A.D. 720	Hawk Point, Shelburne County	43°24.80'N	65°36.90'W	Wood	GSC-899	Lowdon & Blake, 1970
1,240±50	Duncans Lake, Halifax County	44°30'N	63°33'W	Gyttja	Dal-111	Odgen & Hart, 1977
1,260±140 A.D. 690	Saints Rest, Colchester County	45°23.90'N	63°47.90'W	Saltwater peat	GSC-992	Lowdon & Blake, 1970
1,290±75 A.D. 660	Whynachts Cove, Lunenburg County	44°27'34"N	64°18'33"W	Charcoal	S-183	McCallum & Wittenberg, 1965
1,320±130 A.D. 630	Brighton, Digby County	44°32.90'N	65°51.90'W	*Scirpus sp.*	GSC-1052	Lowdon & Blake, 1970
1,390±160	Chebogue Harbour, Yarmouth County	43°47'N	66°05'W	Wood 6.6 feet (2 m) below high tide	GX-4596	Scott, unpublished
1,470±130 A.D. 480	Hawk Point, Shelburne County	43°25.00'N	65°36.80'W	Freshwater peat	GSC-731	Lowdon & Blake, 1970
1,510±145	Wallace Basin, Cumberland County	45°50'N	63°34'W	Wood 5.6 feet (1.7 m) below high tide	GX-4651	Scott, unpublished
1,560±70 A.D. 390	McAdams Lake, Cape Breton County	46°01.50'N	60°24.76'W	Wood fragment	GSC-2058	Lowdon & Blake, 1976
1,570±60	Bunker Island, Yarmouth County	46°48.92'N	66°08.16'W	*Mya arenaria* shells	GSC-2906	Blake, 1983
1,750±130 A.D. 200	Highland Village, Colchester County	45°23.50'N	63°39.00'W	Wood 3.6 feet (1.1 m) below high tide	GSC-1045	Lowdon & Blake, 1970

DATES	PLACE	CO-ORDINATES		MATERIAL	LAB NUMBER	REFERENCES
		LATITUDE	LONGITUDE			
1,800±130 A.D. 150	Amherst Point, Cumberland County	45°46.55'N	64°16.95'W	Sedge peat	GSC-1076	Lowdon, Robertson & Blake, 1971
1,800±130 A.D. 150	West Light, Sable Island	43°55'N	60°10'W	Shell	GSC-699	Lowdon, Robertson & Blake, 1971
1,910±130 A.D. 40	Amherst Point, Cumberland County	45°46.55'N	64°16.95'W	Sedge peat 15.1 feet (4.6 m) below high tide	GSC-1079	Lowdon, Robertson & Blake, 1971
1,940±140	Chezzetcook Inlet, Halifax County	44°42'N	63°15'W	Wood 22.3 feet (6.8 m) below high tide	GX-4652	Scott, unpublished
2,050±130 100 B.C.	Cabot Trail, Inverness County	46°45'30"N	60°51'W	Wood	GSC-281	Dyck, Lowdon, Fyles & Blake, 1966
2,060±80	Lovett Lake, Halifax County	44°39'N	63°42'W	Gyttja	Dal-152	Odgen & Hart, 1977
2,070±130 120 B.C.	Highland Village, Colchester County	45°23.50'N	63°39.00'W	Wood 5.2 feet (1.6 m) below high tide	GSC-957	Lowdon & Blake, 1970
2,090±70	St. Marys Bay, Digby County	44°34.94'N	65°51.49'W	Wood 8.2 feet (2.5 m) below high tide	GSC-2911	Blake, 1983
2,125±65 175 B.C.	Bear River, Annapolis County	44°37'30"N	65°42'W	Charcoal	S-158	McCallum & Wittenberg, 1965
2,330±160	Minard Lake, Queens County	44°26'N	65°10'W	Gyttja	OWU-497	Railton, 1972
2,355±180	Kingsport, Kings County	44°10'N	64°22'W	Peat 14.4 feet (4.4 m) below high tide	GX-6812	Scott, unpublished
2,455±170	Chebogue Harbour, Yarmouth County	43°47'N	66°05'W	Wood 10.5 feet (3.2 m) below high tide	GX-5718	Scott, unpublished

DATES	PLACE	CO-ORDINATES		MATERIAL	LAB NUMBER	REFERENCES
		LATITUDE	LONGITUDE			
2,645±130	Chebogue Harbour, Yarmouth County	43°47'N	66°05'W	Wood 14.8 feet (4.5 m) below high tide	GX-4597	Scott, unpublished
2,725±130	Granville Ferry, Digby County	44°44'N	65°35'W	Peat 12.5 feet (3.8 m) below high tide	GX-6814	Scott, unpublished
2,730±70	Barton, Digby County	44°33.91'N	66°52.05'W	Wood 11.5 feet (3.5 m) below high tide	GSC-2912	Blake, 1983
2,740±210	Chebogue Harbour, Yarmouth County	43°47'N	66°05'W	Wood 18.4 feet (5.6 m) below high tide	GX-5719	Scott, unpublished
2,750±150 800 B.C.	Amherst Point, Cumberland County	45°46.55'N	64°16.95'W	Sedge peat 22.6 feet (6.9 m) below high tide	GSC-1073	Lowdon, Robertson & Blake, 1971
2,905±220	Kingsport, Kings County	45°10'N	64°22'W	Peat 21 feet (6.4 m) below high tide	GX-6811	Scott, unpublished
2,960±130 1,010 B.C.	Amherst Point, Cumberland County	45°46.55'N	64°16.95'W	Sedge peat 26.6 feet (8.1 m) below high tide	GSC-1075	Lowdon, Robertson & Blake, 1971
2,980±260	Minard Lake, Queens County	44°26'N	65°10'W	Gyttja	OWU-498	Railton, 1972
3,050±140	Granville Ferry, Digby County	44°44'N	65°35'W	Peat 20.3 feet (6.2 m) below high tide	GX-6813	Scott, unpublished
3,090±95 1,140 B.C.	North Aspy River, Victoria County	40°52'04"N	60°34'48"W	Wood from riverbank	I-2437	Buckley & Willis, 1970; Newman, 1971
3,140±190	Granville Ferry, Digby County	44°44'N	65°35'W	Peat 32.8 feet (10 m) below high tide	GX-6809	Scott, unpublished
3,330±140 1,389 B.C.	Chebogue Point, Yarmouth County	43°44.40'N	66°07.00'W	Sedge peat	GSC-1046	Lowdon & Blake, 1970

DATES	PLACE	CO-ORDINATES		MATERIAL	LAB NUMBER	REFERENCES
		LATITUDE	LONGITUDE			
3,330±178	Wards Brook, Cumberland County	54°24.80'N	64°34'00"W	Gyttja 3.9 feet (1.2 m) depth	Dal-315	Wightman, 1980
3,340±175	Everitts Lake, Digby County	44°27'N	65°52'W	Gyttja 6.3 inches (160 cm)	Dal-209	Odgen & Hart, 1977
3,380±160	Otter Lake, Halifax County	44°36'N	63°45'W	Gyttja	Dal-161	Odgen & Hart, 1977
3,480±140 1,530 B.C.	Grand Pre, Kings County	45°08.25'N	64°17.14'W	Wood 8.2 feet (2.5 m) below high tide	GSC-1054	Lowdon & Blake, 1970
3,525±230	Chezzetcook Inlet, Halifax County	44°42'N	63°15'W	Wood 27.6 feet (8.4 m) below high tide	GX-5708	Scott, unpublished
3,540±140 1,590 B.C.	West Light, Sable Island	43°55'N	60°10'W	*Crassostrea virginica*	GSC-634	Lowdon, Robertson & Blake, 1971
3,593±105	Gilbert Lake, Cumberland County	45°28'N	64°20'W	Gyttja	Dal-309	Wightman, 1980
3,770±180	Currys Pond, Yarmouth County	43°53'N	65°51'W	Gyttja 5.9 inches (15 cm)	Dal-229	Odgen & Hart, 1977
3,820±130 1,870 B.C.	Grand Pre, Kings County	45°08.25'N	64°17.14'W	Wood	GSC-972	Lowdon & Blake, 1970
4,170±80	Green Bay, Lunenburg County	44°11.40'N	64°26.10'W	Marine sapropel 45.9 feet (14 m) water depth	GSC-2128	Lowdon, Robertson & Blake, 1977
4,390±70	Wards Brook, Cumberland County	54°24.80'N	54°33.40'W	Gyttja 3.9 feet (1.2 m) depth	GSC-2730	Lowdon & Blake, 1981
4,415±130	Shaws Bog, Hants County	45°01'N	64°11'W	Gyttja	I-7077	Hadden, 1975

DATES	PLACE	CO-ORDINATES		MATERIAL	LAB NUMBER	REFERENCES
		LATITUDE	LONGITUDE			
4,430±215	Kingsport, Kings County	45°10'N	64°22'W	Peat 30.8 feet (9.4 m) below high tide	GX-6810	Scott, unpublished
4,490±80	Church Point, Digby County	44°20.00'N	66°07.50'W	Wood 14.4 feet (4.4 m) below high tide	GSC-2914	Blake, 1983
4,540±140 2,590 B.C.	Silver Lake, Halifax County	43°33'48"N	63°38'34"W	Gyttja	GSC-792	Lowdon & Blake, 1968
4,905±225 2,955 B.C.	Wiles Lake, Lunenburg County	44°23'N	64°34'W	Gyttja 4.9 feet (1.5 m) depth	OWU-502	Ogden & Hay, 1973
5,040±140	Yarmouth Harbour, Yarmouth County	43°50.60'N	66°07.76'W	Wood 70.9 feet (21.6 m) below high tide	GSC-1686	Blake, 1983
5,060±130 3,110 B.C.	Church Point, Digby County	44°20.10'N	66°07.40'W	Wood	GSC-900	Lowdon & Blake, 1970
5,205±235	Chezzetcook Inlet, Halifax County	44°42'N	63°15'W	Peat 36.1 feet (11 m) below high tide	GX-6815	Scott, unpublished
5,540±140 3,590 B.C.	Salmon Lake River, Richmond County	45°38'40"N	60°46'30"W	Lake mud	GSC-791	Lowdon & Blake, 1968
5,600±640 3,650 B.C.	Wiles Lake, Lunenburg County	44°23'N	64°34'W	Algal gyttja 13.1 feet (4 m) depth	GSC-1540	Lowdon & Blake, 1976
5,640±220	Gilbert Lake, Cumberland County	45°28'N	64°20'W	Gyttja	QU-765	Wightman, 1980
5,650±140 3,700 B.C.	West Light, Sable Island	43°55'N	60°10'W	*Crassostrea virginica*	GSC-635	Lowdon, Robertson & Blake, 1971
5,735±220	Minard Lake, Queens County	44°26'N	65°10'W	Gyttja (basal)	OWU-499	Railton, 1972

DATES	PLACE	CO-ORDINATES		MATERIAL	LAB NUMBER	REFERENCES
		LATITUDE	LONGITUDE			
6,030±320	Minas Basin	NA	NA	Total carbon 39.4-47.2 inches (100-120 cm)	NA	Amos, 1978
6,090±170	Scotian Shelf Core 76-016-2	NA	NA	Total carbon	GSC-2947	King & Fader, in press
6,230±235 4,280 B.C.	Wiles Lake, Lunenburg County	44°23'N	64°34'W	Gyttja 7.5 feet (2.3 m) depth	GWU-503	Ogden & Hay, 1973
6,240±175	Minas Basin	NA	NA	Total carbon 82.3 inches (209 cm) depth	NA	Amos, 1978
6,290±140	Shaws Bog, Hants County	45°01'N	64°11'W	Gyttja	I-7078	Hadden, 1975
6,480±70	Scotian Shelf Core 79-011-1	NA	NA	Total carbon	GSC-3255	King & Fader, in press
6,660±220 4,710 B.C.	Wiles Lake, Lunenburg County	44°23'N	64°34'W	Algal gyttja	GSC-2268	Lowdon & Blake, 1976
6,945±190	Lunenburg Bay, Lunenburg County	44°19.00'N	64°13.00'W	Peat	GX-6491	Scott & Medioli, 1982
6,980±140 5,030 B.C.	South Beach, Sable Island	43°55.50'N	60°02.00'W	Peat ball	GSC-917	Lowdon, Robertson & Blake, 1971
7,030±340	Everitts Lake, Digby County	44°27'N	65°52'W	Gyttja 181.1 inches (460 cm)	Dal-212	Odgen & Hart, 1977
7,070±310	Lunenburg Bay, Lunenburg County	44°19'N	64°13'W	Peat + wood 88.6 feet (2.7 m) below high tide	GX-6490	Scott, unpublished
7,070±310	Lunenburg Bay, Lunenburg County	44°19.00'N	64°13.00'W	Peat 88.6 feet (27 m) below high tide	GX-6490	Scott & Medioli, 1982

NA = not available

DATES	PLACE	CO-ORDINATES		MATERIAL	LAB NUMBER	REFERENCES
		LATITUDE	LONGITUDE			
7,140±140 5,190 B.C.	Port Hood Island, Inverness County	46°01'N	61°34'30"W	Wood in sinkhole	GSC-484	Lowdon & Blake, 1976
7,140±140 5,190 B.C.	Silver Lake, Halifax County	43°33'48"N	63°38'34"W	Gyttja	GSC-772	Lowdon & Blake, 1968
7,255±250	Minas Basin	NA	NA	Total carbon 71.7 inches (182 cm) depth	NA	Amos, 1978
7,300±350	Minas Basin	NA	NA	Total carbon 11.8-13.8 inches (30-35 cm)	NA	Amos, 1978
7,490± 80	Scotian Shelf Core 78-012-132	NA	NA	Total carbon	GSC-2933	King & Fader, in press
7,490±315	Minas Basin	NA	NA	Total carbon 98.4 feet (30 m) depth	NA	Amos, 1978
7,530±225	Minas Basin	NA	NA	Total carbon 118.1-124 inches (300-315 cm)	NA	Amos, 1978
7,685±92	Debert, Colchester County	45°25.50'N	63°27.00'W	Charcoal	P-740	Byers, 1975
7,770±140 5,820 B.C.	South Beach, Sable Island	43°56'N	59°52'W	Peat ball	GSC-916	Lowdon, Robertson & Blake, 1971
8,040±360	Minas Basin	NA	NA	Total carbon 83.5-84.3 inches (212-214 cm)	NA	Amos, 1978
8,130±380	Currys Pond, Yarmouth County	43°53'N	65°51'W	Gyttja 74.8 inches (190 cm)	Dal-232	Odgen & Hart, 1977
8,180±150 6,230 B.C.	Saints Rest, Colchester County	45°23.90'N	63°47.90'W	Wood	GSC-757	Lowdon & Blake, 1970

NA = not available

DATES	PLACE	CO-ORDINATES		MATERIAL	LAB NUMBER	REFERENCES
		LATITUDE	LONGITUDE			
8,250±365 6,300 B.C.	Wiles Lake, Lunenburg County	44°23'N	64°34'W	Gyttja 11.8 feet (3.6 m) depth	OWU-505	Ogden & Hay, 1973
8,250±365	Wiles Lake, Lunenburg County	44°22'N	64°34'W	Gyttja	OWU-505	Railton, 1972
8,505±160	Shaws Bog, Hants County	45°01'N	64°11'W	Gyttja 19.7 feet (6 m) depth	I-7079	Hadden, 1975
8,665±195	Minas Basin	NA	NA	Total carbon 131.1 inches (333 cm) depth	NA	Amos, 1978
8,675±835 6,724 B.C.	Wiles Lake, Lunenburg County	44°23'N	64°34'W	Gyttja 9.8 feet (3.0 m) depth	OWU-504	Ogden & Hay, 1973
8,770±150 6,820 B.C.	Salmon River Lake, Richmond County	45°38'40"N	60°46'30"W	Lake mud	GSC-336	Dyck, Lowdon, Fyles & Blake, 1966
9,030±170 7,080 B.C.	Wreck Cove, Victoria County	46°32'25"N	60°26'50"W	Lake mud	GSC-335	Dyck, Lowdon, Fyles & Blake, 1966
9,130±440	Minas Basin	NA	NA	Total carbon 11.8 inches (30 cm)	NA	Amos, 1978
9,180±255	Shaws Bog, Hants County	45°01'N	64°11'W	Gyttja 22 feet (6.7 m) depth	I-7080	Hadden, 1975
9,580±310	Leak Lake, Cumberland County	45°26'N	64°20'W	Gyttja	Dal-313	Wightman, 1980
9,650±150 7,700 B.C.	Silver Lake, Halifax County	44°33'48"N	63°38'34"W	Lake mud	GSC-333	Dyck, Lowdon, Fyles & Blake, 1966
9,715±200	Leak Lake, Cumberland County	45°26'N	64°20'W	Gyttja	Dal-314	Wightman, 1980

NA = not available

DATES	PLACE	CO-ORDINATES		MATERIAL	LAB NUMBER	REFERENCES
		LATITUDE	LONGITUDE			
9,830±100	West Brook, Cumberland County	45°33.50'N	64°17.50'W	Peat under 47.2 inches (120 cm) of silt	GSC-2772	Lowdon & Blake, 1981; Wightman, 1980
10,120±200	Diligent River, Cumberland County	45°24'N	64°26'W	Gyttja	QU-764	Wightman, 1980
10,160±160	Gillis Lake, Richmond County	45°39'30"N	60°46'30"W	Gyttja	Y-524	Deevey, Gralenski & Hoffren, 1959
10,300±150 8,350 B.C.	East Bay, Cape Breton County	46°02.66'N	60°22.50'W	Peat lens under 4.3 feet (1.3 m) till?	GSC-1578	Lowdon & Blake, 1976
10,467±118	Debert, Colchester County	45°25.50'N	63°27.00'W	Charcoal	P-970A	Byers, 1975
10,600±130 8,650 B.C.	Georges Bank	45°05'N	67°15'W	*Crassostea virginica*	S-186	McCallum & Wittenberg, 1965
10,710±240	Port Hood Island, Inverness County	46°01'17"N	61°33'49"W	*Populus* wood and peat	Y-762	Stuiver & Deevey, 1961
10,764±101	Folly Lake Bog, Colchester County	45°33'N	63°33'W	Gyttja (basal)	P-951	Livingston & Estes, 1967
10,810±475	Currys Pond, Yarmouth County	43°53'N	65°51'W	Gyttja 100.4 inches (255 cm)	Dal-233	Odgen & Hart, 1977
10,900±600 8,950 B.C.	Mobil Oil drillhole off Sable Island	43°56'N	59°55'W	Sandy peat	GSC-935	Lowdon, Robertson & Blake, 1971
11,000±170 9,050 B.C.	Port Hood Island, Inverness County	46°01'N	61°34'30"W	Twigs and wood fragments	GSC-540	Lowdon & Blake, 1976
11,026±225	Debert, Colchester County	45°25.50'N	63°27.00'W	Charcoal, campfire	P-975	Byers, 1975

DATES	PLACE	CO-ORDINATES		MATERIAL	LAB NUMBER	REFERENCES
		LATITUDE	LONGITUDE			
11,100± 90	River Denys, Inverness County	45°48.40N	61°12.9'W	Silty clay	GSC-3378	Mott & Prest, unpublished; Blake, 1984, in press
11,100±100	Brookside, Colchester County	45°24.09'N	63°14.35'W	Peat	GSC-2930	Beke, unpublished
11,100±100	Lantz, Hants County	44°58.67'N	63°29.17'W	Peat under 8.2 feet (2.5 m) of till?	GSC-3116	Blake, 1982
11,100±1500	Scotian Shelf Core 76-016-2	NA	NA	Total carbon	GSC-2944	King & Fader, in press
11,200±100 9,250 B.C.	Nictaux Falls, Annapolis County	44°54.30'N	65°01.90'W	Black muck under 9.8 feet (3 m) sand & gravel	GSC-2062	Lowdon & Blake, 1975
11,200±110	Campbell, Inverness County	45°50.25'N	61°29.70'W	Peat under alluvium	GSC-2212	Blake, 1984, in press
11,300±90 9,350 B.C.	Benacadie Point, Cape Breton County	45°54.16'N	60°43.68'W	Woody peat under 6.6 feet (2 m) diamicton	GSC-2146	Lowdon & Blake, 1976
11,300±160 9,350 B.C.	Port Hood Island, Inverness County	46°01'N	61°34'30"W	Wood under 19.7 inches (50 cm) sand	GSC-541	Lowdon & Blake, 1976
11,380±480	Journeays Lake, Digby County	44°23.80'N	66°00.80'W	Total carbon	GX-6816	Scott, unpublished
11,400±100	Lower Cove, Cumberland County	45°43'N	64°28'W	Peat	GSC-3550	Stea, unpublished; Blake, 1984, in press
11,555±230	Diligent River, Cumberland County	45°24'N	64°26'W	Gyttja	Dal-301	Wightman, 1980

NA = not available

DATES	PLACE	CO-ORDINATES		MATERIAL	LAB NUMBER	REFERENCES
		LATITUDE	LONGITUDE			
11,600±120	Scotian Shelf Core 79-011-1	NA	NA	Total carbon	GSC-3258	King & Fader, in press
11,700±160 9,750 B.C.	Canoran Lake, Lunenburg County	44°35.80'N	64°34.90'W	Gyttja (basal)	GSC-1486	Lowdon & Blake, 1973
12,900±270	Leak Lake, Cumberland County	45°26'N	64°20'W	Gyttja	GSC-2728	Wightman, 1980
13,365±420	West Brook, Cumberland County	45°01'N	64°11'W	Peat	Dal-300	Wightman, 1980
13,450±260	Gillis Lake, Richmond County	45°39'30"N	60°46'30"W	Gyttja	Y-525	Deevey, Gralenski & Hoffren, 1959
14,100±200	Gilberts Cove, Digby County	44°27'N	65°55'W	Littoral seaweed detritus	GSC-1259	Grant, 1980a
14,100±200	Scotian Shelf Core 78-012-132	NA	NA	Total carbon	GSC-2926	King & Fader, in press
14,465±550	Scotian Shelf Core 79-003-45	NA	NA	Total carbon	GX-8799	King & Fader, in press
14,800±330	Scotian Shelf Core 78-012-223	NA	NA	Total carbon	GSC-2874	King & Fader, in press
14,880±710	Minas Basin	NA	NA	Total carbon in glacial sediments	GX-4514	Amos, 1978
15,100±230	Scotian Shelf Core 79-011-1	NA	NA	Total carbon	GSC-3260	King & Fader, in press
15,300±390	Scotian Shelf Core 76-016-3	NA	NA	Total carbon	GSC-2697	King & Fader, in press

NA = not available

DATES	PLACE	CO-ORDINATES		MATERIAL	LAB NUMBER	REFERENCES
		LATITUDE	LONGITUDE			
15,900±1,200	Leak Lake, Cumberland County	45°26'N	64°20'W	Gyttja (basal)	GSC-2880	Wightman, 1980
16,170±520	Scotian Shelf Core 73-003-351	NA	NA	Total carbon	GX-6695	King & Fader, in press
16,400±180	Scotian Shelf Core 79-011-1	NA	NA	Total carbon	GSC-3272	King & Fader, in press
17,000±900	Scotian Shelf Core 76-016-2	NA	NA	Total carbon	GSC-2709	King & Fader, in press
17,245±450	Scotian Shelf Core 73-003-357	NA	NA	Total carbon	GX-6696	King & Fader, in press
17,400±670	Scotian Shelf Core 76-016-6	NA	NA	Total carbon	GSC-2801	King & Fader, in press
17,600±620	Scotian Shelf Core 76-016-6	NA	NA	Total carbon	GSC-2810	King & Fader, in press
17,715+800 -600	Scotian Shelf Core 79-011-12	NA	NA	Total carbon	GX-8548	King & Fader, in press
18,000±990	Scotian Shelf Core 76-016-4	NA	NA	Total carbon	GSC-2755	King & Fader, in press
>18,000	Scotian Shelf Core 76-016-5	NA	NA	Total carbon	GSC-2770	King & Fader, in press
>18,000	Scotian Shelf Core 76-016-5	NA	NA	Total carbon	GSC-2789	King & Fader, in press
18,800	Scotian Shelf	NA	NA	Peat	NA	King, 1969

NA = not available

DATES	PLACE	CO-ORDINATES		MATERIAL	LAB NUMBER	REFERENCES
		LATITUDE	LONGITUDE			
19,000+1,050 -900	Scotian Shelf Core 82-003-45	NA	NA	Total carbon	GX-8801	King & Fader, in press
19,000±530	Scotian Shelf Core 76-016-4	NA	NA	Total carbon	GSC-2939	King & Fader, in press
>19,000	Scotian Shelf Core 76-016-3	NA	NA	Total carbon	GSC-2711	King & Fader, in press
20,300±400	South Aspy River, Victoria County	46°52'27"N	60°30'00"W	Organic debris	I-2438	Newman, 1971
20,750+1,200 -1,050	Scotian Shelf Core 79-011-12	NA	NA	Total carbon	GX-8547	King & Fader, in press
21,600±690	Scotian Shelf Core 76-016-3	NA	NA	Total carbon	GSC-2735	King & Fader, in press
21,800±760	Scotian Shelf Core 78-012-321	NA	NA	Total carbon	GSC-2890	King & Fader, in press
22,015+1,350 -1,150	Scotian Shelf Core 75-009-21v	NA	NA	Total carbon	GX-8803	King & Fader, in press
22,200±1,450	Scotian Shelf Core 78-012-223	NA	NA	Total carbon	GSC-2866	King & Fader, in press
22,600±1,080	Scotian Shelf Core 76-016-5	NA	NA	Total carbon	GSC-2967	King & Fader, in press
22,700±730	Scotian Shelf Core 78-012-321	NA	NA	Total carbon	GSC-2999	King & Fader, in press
23,600+1,200 -1,000	Scotian Shelf Core 82-003-45	NA	NA	Total carbon	GX-8800	King & Fader, in press

NA = not available

DATES	PLACE	CO-ORDINATES		MATERIAL	LAB NUMBER	REFERENCES
		LATITUDE	LONGITUDE			
24,500+1,700 -1,300	Scotian Shelf Core 79-011-3v	NA	NA	Total carbon	GX-8540	King & Fader, in press
24,800±1,130	Scotian Shelf Core 76-016-5	NA	NA	Total carbon	GSC-2962	King & Fader, in press
24,820+1,400 -1,150	Scotian Shelf Core 82-003-65	NA	NA	Total carbon	GX-8796	King & Fader, in press
24,900±700	South Aspy River, Victoria County	46°52'27"N	60°30'00"W	Organic debris	I-3414	Newman, 1971
26,235+1,600 -1,200	Scotian Shelf Core 79-011-10	NA	NA	Total carbon	GX-8544	King & Fader, in press
26,320+1,800 -1,350	Scotian Shelf Core 79-011-11	NA	NA	Total carbon	GX-8546	King & Fader, in press
26,600±1,600	Scotian Shelf Core 76-016-5	NA	NA	Total carbon	GSC-2715	King & Fader, in press
26,900±650	Scotian Shelf Core 79-011-11	NA	NA	Total carbon	GSC-3164	King & Fader, in press
27,150+2,260 -1,770	Scotian Shelf Core 73-003-351	NA	NA	Total carbon	GX-6697	King & Fader, in press
27,300±600	Scotian Shelf Core 79-011-12	NA	NA	Total carbon	GSC-3244	King & Fader, in press
27,310+1,400 -1,300	Scotian Shelf Core 79-011-2v	NA	NA	Total carbon	GX-8539	King & Fader, in press
27,310±650	Scotian Shelf Core 79-011-11	NA	NA	Total carbon	GX-8545	King & Fader, in press

NA = not available

DATES	PLACE	CO-ORDINATES		MATERIAL	LAB NUMBER	REFERENCES
		LATITUDE	LONGITUDE			
28,170+3,500 -2,400	Scotian Shelf Core 79-011-10	NA	NA	Total carbon	GX-8542	King & Fader, in press
>30,000	Scotian Shelf Core 79-011-2v	NA	NA	Total carbon	GX-8538	King & Fader, in press
30,260+2,500 -1,900	Scotian Shelf Core 73-003-351	NA	NA	Total carbon	GX-6698	King & Fader, in press
30,545+4,200 -3,200	Scotian Shelf Core 79-011-10	NA	NA	Total carbon	GX-8543	King & Fader, in press
30,800+3,000 -2,000	Scotian Shelf Core 82-003-65	NA	NA	Total carbon	GX-8798	King & Fader, in press
30,900±5,400	Scotian Shelf Core 79-011-11	NA	NA	Total carbon	GSC-3231	King & Fader, in press
32,000±630	Middle River, Victoria County	46°10'N	60°56'W	Mastodon femur	GSC-1220	Grant, unpublished
32,100±900	Grantville, Richmond County	45°39'N	61°15'W	Shell	GSC-1408	Grant, 1971a
32,180+3,400 -2,200	Scotian Shelf Core 79-011-8	NA	NA	Total carbon	GX-8541	King & Fader, in press
32,200±1,030	Scotian Shelf Core 79-011-6	NA	NA	Total carbon	GSC-3095	King & Fader, in press
>33,000	Scotian Shelf Core 79-011-9	NA	NA	Total carbon	GSC-3138	King & Fader, in press
33,100±700	Dingwall, Victoria County	46°54.05'N	60°27.02'W	Wood	GSC-3381	Mott & Prest, unpublished

NA = not available

DATES	PLACE	CO-ORDINATES		MATERIAL	LAB NUMBER	REFERENCES
		LATITUDE	LONGITUDE			
33,100+5,500 2,700	Scotian Shelf Core 82-003-75	NA	NA	Total carbon	GX-8793	King & Fader, in press
33,200±2,000	Miller Creek, Hants County	45°00.85'N	64°02.65'W	Wood	I-3237	MacNeill, 1969
>33,800	Milford, Annapolis County	45°00.50'N	63°25.50'W	Wood under 65.6 feet (20 m) till(s)	GSC-33	Dyck & Fyles, 1963
>34,000	Janvrin Island, Richmond County	45°31.30'N	61°06.70'W	Marine shells in till	GSC-1639	Prest et al., 1972
>34,000	Scotian Shelf Core 79-011-2	NA	NA	Total carbon	GSC-3263	King & Fader, in press
>34,000	Scotian Shelf Core 79-011-9	NA	NA	Total carbon	GSC-3068	King & Fader, in press
34,300±960	Scotian Shelf Core 79-011-2	NA	NA	Total carbon	GSC-3264	King & Fader, in press
35,000±1,600	Scotian Shelf Core 79-011-12	NA	NA	Total carbon	GSC-3251	King & Fader, in press
35,400±810	Scotian Shelf Core 79-00-3v	NA	NA	Total carbon	GSC-2987	King & Fader, in press
36,200±1,280	Big Brook, Inverness County	45°48.40'N	61°12.90'W	Organic silt below tills	GSC-3206	Blake, 1984, in press
36,300±980	Scotian Shelf Core 79-011-10	NA	NA	Total carbon	GSC-3152	King & Fader, in press
36,500±1,370	Scotian Shelf Core 79-011-2v	NA	NA	Total carbon	GSC-2995	King & Fader, in press

NA = not available

DATES	PLACE	CO-ORDINATES		MATERIAL	LAB NUMBER	REFERENCES
		LATITUDE	LONGITUDE			
>37,000	Minas Basin	NA	NA	Total carbon in glacial sediments	GX-4522	Amos, 1978
>37,000	Scotian Shelf Core 82-003-65	NA	NA	Total carbon	GX-8797	King & Fader, in press
>37,000	Scotian Shelf Core 82-003-75	NA	NA	Total carbon	GX-8794	King & Fader, in press
>37,000	Scotian Shelf Core 82-003-75	NA	NA	Total carbon	GX-8795	King & Fader, in press
37,800±1,900	Scotian Shelf Core 79-011-8	NA	NA	Total carbon	GSC-3271	King & Fader, in press
>38,000	Cape Cove, Digby County	44°04.70'N	66°10.93W	Wood in till	GSC-695	Grant, 1980a
>38,000	Cape St. Marys, Digby County	44°05'N	66°11'W	Marine shells	GSC-695	Lowdon & Blake, 1968
>38,000	Scotian Shelf Core 79-011-2	NA	NA	Total carbon	GSC-3265	King & Fader, in press
>38,300	Bay St. Lawrence, Victoria County	47°00'50"N	60°17'W	Wood	GSC-283	Dyck, Lowdon, Fyles & Blake, 1966
38,600±1,300	Salmon River, Digby County	44°03.50'N	66°10.50'W	Marine shells under 15 m tills	GSC-1440	Clark et al., 1972; Grant, 1976b
>39,000	Gilberts Cove, Digby County	44°29'10"N	65°57'10"W	Marine shells *Mercenaria mercenaria*	GSC-887	Lowdon & Blake, 1970
39,500±1,390	Scotian Shelf Core 79-011-46	NA	NA	Total carbon	GSC-2983	King & Fader, in press

NA = not available

DATES	PLACE	CO-ORDINATES		MATERIAL	LAB NUMBER	REFERENCES
		LATITUDE	LONGITUDE			
41,800±1,790	Scotian Shelf Core 79-011-7	NA	NA	Total carbon	GSC-2979	King & Fader, in press
>42,000	Addington Forks, Antigonish County	45°34'N	62°06'W	Wood *Juniperus sp.* overlain by 19.7 feet (6 m) of till	GSC-1598	Lowdon & Blake, 1973
>42,000	Castle Bay, Cape Breton County	45°55.22'N	60°38.75'W	Organic silt	GSC-1577	Grant, 1972
>44,000	Whycocomagh, Inverness County	45°58'30"N	61°07'30"W	Wood	GSC-290	Dyck, Lowdon, Fyles & Blake, 1966
>44,000	Whycocomagh, Inverness County	46°58.45'	61°07.80'W	Wood	GSC-290	Mott & Prest, 1967
44,200±820	Bay St. Lawrence, Victoria County	47°00.75'N	60°26.83'W	Wood under colluvium	GSC-3626	DeVernal et al., 1983
>49,000	Big Brook, Inverness County	45°48.40'N	61°12.90'W	Wood *Picea sp.* under 49.2 feet (15 m) of till	GSC-3289	Blake, 1982
>49,000	River Inhabitants, Richmond County	45°40.57'N	61°19.58'W	Wood under 72.2 feet (22 m) of till	GSC-1406	Mott, 1971
>50,000	Milford, Annapolis County	45°00'20"N	62°25'10"W	Wood *Larix sp.* overlain by two tills	GSC-1642	Lowdon & Blake, 1973
>51,000	Hillsboro, Inverness County	46°04'37"N	61°22'06"W	Wood	GSC-570	Dyck, Lowdon, Fyles & Blake, 1966
>52,000	Castle Bay, Cape Breton County	45°55.22'N	60°38.75'W	Wood	GSC-1619	Grant, 1972

NA = not available

DATES	PLACE	CO-ORDINATES		MATERIAL	LAB NUMBER	REFERENCES
		LATITUDE	LONGITUDE			
>52,000	Leitches Creek, Cape Breton County	46°09.20'N	60°22.87'W	Peat under 65.6 feet (20 m) of till	GSC-2678	Goranson, unpublished
>52,000	Miller Creek, Hants County	45°00'50"N	64°02'40"W	Wood *Pinus banksiana* under 72.2 feet (22 m) of till	GSC-2694	Lowdon & Blake, 1980
>53,000	Green Point, Inverness County	46°05.37'N	61°28.58'W	Peat under 65.6 feet (20 m) of till	GSC-3320	Blake, 1984, in press
>53,000	Mabou, Inverness County	46°05.17'N	61°24.52'W	Wood under outwash	GSC-3317	Blake, 1984, in press